

Texas Commission on Environmental Quality
Chapter 217 – Design Criteria for Domestic Wastewater Systems
Subchapter F: Activated Sludge Systems
Effective December 4, 2015

Table F.2. – Maximum Clarifier Weir Overflow Rates Based Upon Traditional Design Methods

Applicable Permit Effluent Sets (mg/L)			Aeration Basin Organic Loading	Process – Treatment Level	Maximum Surface Loading Rate at Two Hour Peak Flow (gpd/ft ²)	Minimum Detention Time at Two Hour Peak Flow (h)
BOD ₅	TSS	NH ₃ – N				
20	20		45	Fixed film – secondary or enhanced secondary	1,200	1.8
10	15					
20	20		45, 35, 25, or 20	Activated sludge – secondary, enhanced secondary, or secondary with nitrification	1,200	1.8
10	15					
10	15	3				
20	20		15	Extended air - secondary	900	2.0
10	15	3	15	Extended air – enhanced secondary	800	2.2

(2) A clarifier must meet both the detention time and weir overflow rate criteria in Table F.2.